

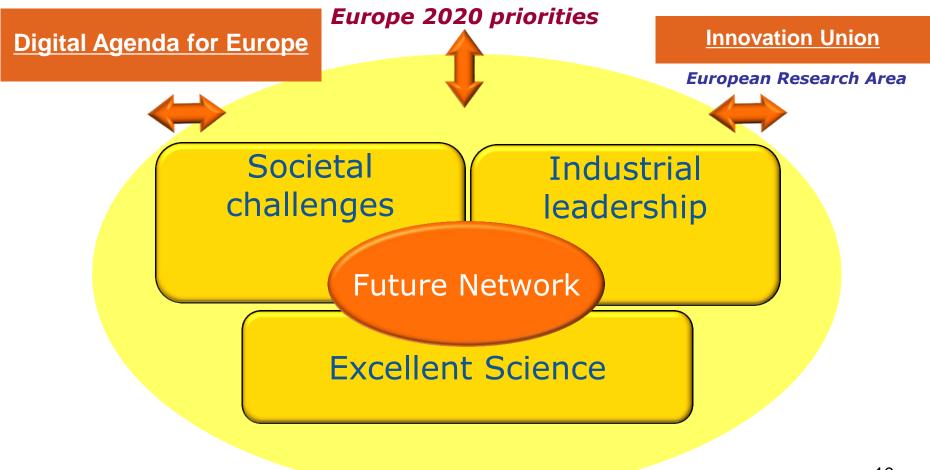
Ubiquitous Networks and Services as an Innovation Platform: the EU R&D perspective

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HORIZON 2020: new challenges





An integrated approach in DG-CONNECT

Network Technologies

Towards Networks 2020

Software and Services,
Clouds

Infrastructure for Research, experimental platforms

Net InnovationUser in the loop

Socio Economic Drivers and context, what should technology answer?

Technology Push

Synergy and integration for impact maximisation,

Market/Usage
Pull

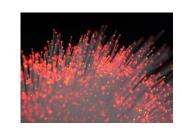


Trends driving EU R&I on Future Networks I

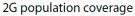
- Data explosion, content
 - High capacity networks
 - Architectures, e.g. Content Centric Networks



- Software Defined Networks, open programmable and virtualised networks
- End-to-End, cloud interoperability/integration
- User involvement: personalised, social
- Ubiquitous access/Mobility
 - High capacity wireless, spectrum efficient and flexible technologies
 - Low radiation
 - From Convergence to fully integrated <u>global</u>
 networks









3G population coverad



Trends driving EU R&I on Future Networks-II

- Sustainability
 - Green networks, drastic energy reduction/user
 - all optical beyond IP routing



- Flexible self-management across multiple domains.
- Big data usage, Quality of Experience
- Leveraging network data in higher level applications
- Objects connectivity
 - IoT, spectrum efficient technologies
 - Integration environment
- Security, Privacy...





Shaping a Connected Digital Future

- The overriding objective should be the "democratisation" of the network
- A seamless information access, knowledge sharing and communication space
- Conducive to individual and social empowerment... and to smart growth
- Addressing societal challenges should lead to innovation and growth opportunities for the ICT sector and beyond
- The upcoming integrated ubiquitous infrastructure will be a game changer
- Global standards and open innovation are key for users and industry alike

HORIZON 2020 is a unique opportunity to meet these ambitions